



Analyze RTL

Overview

The Blue Pearl Software Visual Verification Suite provides enhanced Lint, Debug, Clock Domain Crossing (CDC) and automated SDC generation flows to accelerate RTL Verification. Analyze RTL™ provides RTL linting combined with a powerful debug environment with the industry’s fastest bug find/fix rate to quickly identify critical design issues, up front, streamlining simulation and synthesis while improving overall quality of results.

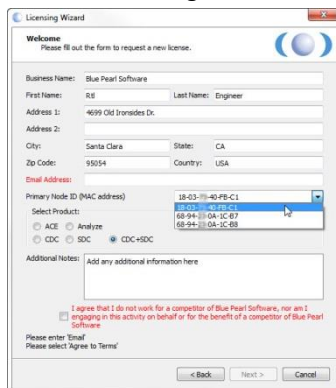
Key Benefits

Modern ASICs, SoCs and FPGAs routinely have millions of gates with memories, transceivers, third party IP and processor cores. RTL issues can be time consuming and complex to debug in the lab and through simulations. To reduce verification and debug times, designers need tools that can identify problems quickly before simulation and synthesis, and definitely before spending time in the lab.

Key Features

Analyze RTL, accelerates RTL verification and debug:

- Fast and meaningful results with tool Setup Wizard



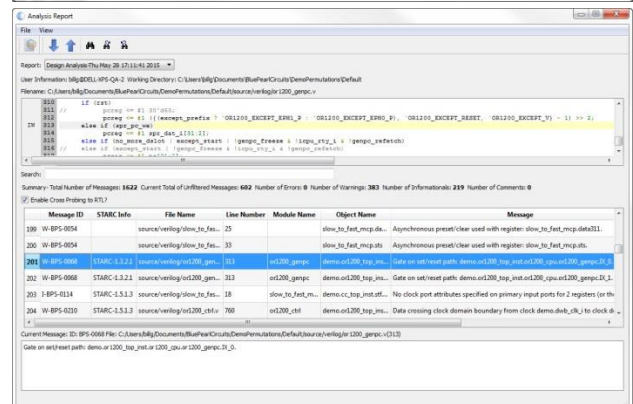
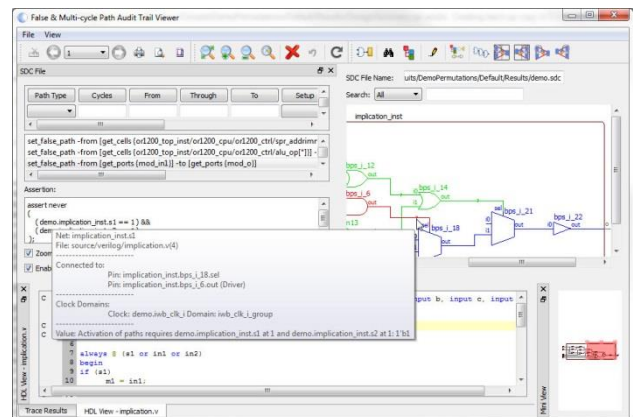
- Check IEEE Verilog/System Verilog & VHDL language specification compliance and syntax
- Configure checks along with standard checks, STARC, RMM, and Xilinx® UltraFast™ Design Methodology
- Use the GUI to streamline debug; integrated RTL, schematics, and message viewer

- Use easy debug message sorting, filtering and waiving to pinpoint problems
- Automated flow with Tcl-based Command Line Interface (CLI), and re-usable message waiver file

Identify Design Issues Quickly

The Visual Verification Suite’s Analyze RTL enables users to debug design issues quickly using intelligent sorting and message filtering.

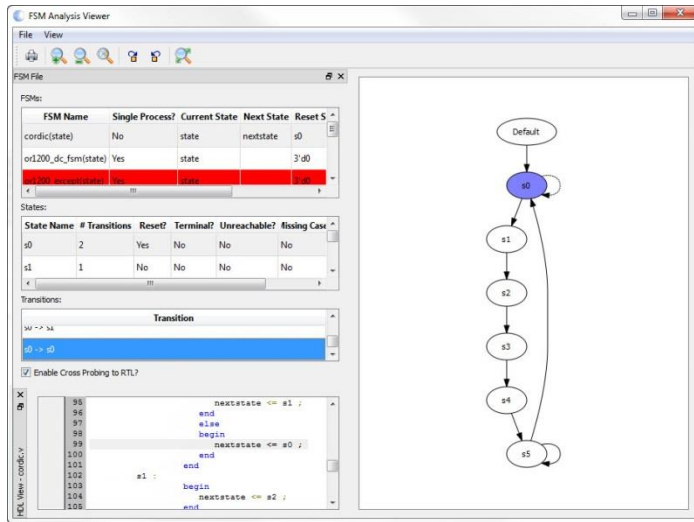
- Low Noise
- Check customization for specific design style
- Easy setup
- Waiver migration



Finite State Machine Analysis

Rather than writing exhaustive simulation test benches to validate their finite state machines (FSMs), designers can use the FSM analysis capability within Analyze RTL. With minimal effort, designers can

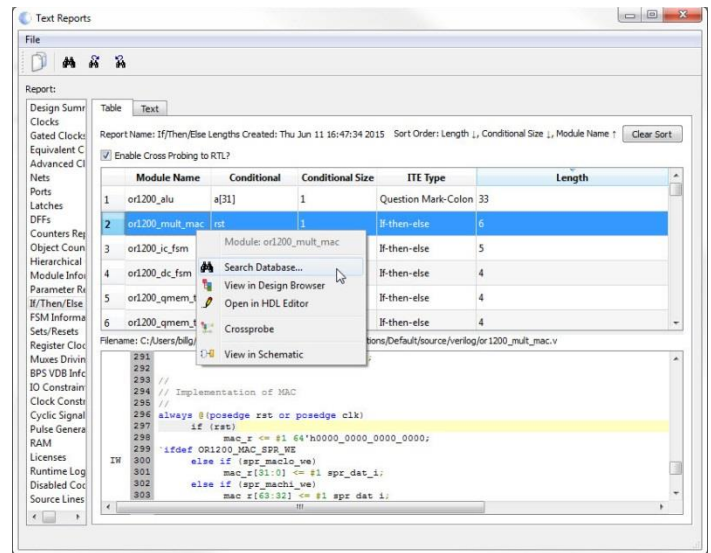
- Extract FSMs from their RTL
- Find dead or unreachable states
- Generate easy to read bubble diagrams to better visualize FSMs



RTL Checks for High Speed Designs

It is important to find as early as possible RTL coding that prevents the design from getting desired speed. FPGAs, because of their more constrained fabric than ASIC, certain type of structures causes slow down. Rather than wait for synthesis or static timing analysis results, Analyze RTL users can easily identify:

- High fanout nets
- Deep nested "if-then-else" statements
- High levels of logic paths
- Reset methodology, Async/sync



Contact us:

www.bluepearlsoftware.com

+1(408) 961 0121

sales@bluepearlsoftware.com